

IV. *A Collection of the Observations made on the Eclipse of the Moon, on March 15. 1735-6. which were communicated to the Royal Society.*

1. Eclipse of the Moon, observed by Mr. Geo. Graham in Fleetstreet, March 15. 1735-6.

| H. | M. | S. | |
|----|----|----|----------------------|
| 10 | 13 | 00 | The Beginning. |
| 11 | 11 | 00 | The total Immersion. |
| 12 | 49 | 00 | The Emerfion. |
| 13 | 47 | 00 | The End. |

2. *Dr. Halley at Greenwich observed,*

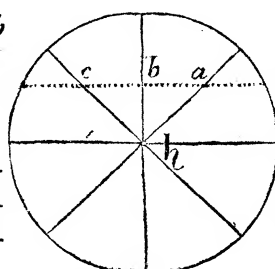
| | H. | M. | S. |
|---------------|----|----|----|
| The Beginning | 10 | 13 | 37 |
| The Immersion | 11 | 09 | 42 |

3. *Observations on the Lunar Eclipse of March 15. 1735-6. made at Mr. Graham's House in Fleet-street, by Mr. Celfius, F. R. S. with a reflecting Telescope of eleven Inches, magnifying Sixty-three times, and made at Edinburgh.*

| H. | M. | S. | |
|----|----|----|---|
| 10 | 22 | 05 | The Shade on the Middle of <i>Kepler</i> . |
| | 23 | 15 | Entering the <i>Mare Humorum</i> . |
| | 28 | 16 | Entering on <i>Copernicus</i> . |
| | 29 | 34 | —— the Middle of <i>Copernicus</i> . |
| | 30 | 26 | <i>Copernicus</i> entire. |
| | 33 | 28 | Enters on <i>Timocharis</i> . |
| | 38 | 44 | Enters on <i>Tycho</i> . |
| | 39 | 12 | The Middle of <i>Tycho</i> . |
| | 40 | 48 | <i>Tycho</i> entire. |
| | 46 | 00 | Enters on <i>Menelaus</i> . |
| | 49 | 20 | <i>Plinius</i> . |
| 11 | 00 | 40 | Enters on <i>Mare Crisum</i> . |
| | 5 | 36 | <i>Mare Crisum</i> entire. |
| | 9 | 17 | The total Immerfion is about to begin. |
| 13 | 13 | 55 | <i>Tycho</i> is emerged out of the Shade. |
| | 29 | 00 | <i>Mare Serenitatis</i> is totally emerged. |
| | 40 | 45 | <i>Mare Crisum</i> is totally emerged. |
| | 45 | 50 | The Eclipse is nearly ended. |
| | 46 | 12 | The Eclipse is certainly ended. |

4. *Observationes habitæ in Covent-Garden, Idibus Martiis 1735. 6. S. V. per D. Bevis, M. D.*

| Tem- pus | Ver. | P. M. | |
|-------------|------|-----------------|--|
| 6 | 53 | 47 | Saturnus in puncto decussationis filorum micrometri. |
| 7 | 31 | 05 | Hyadum primus ad δ filum <i>a</i> transit. |
| 7 | 31 | 50 | ---filum horarium <i>b</i> transit. |
| 7 | 32 | 35 | ---filum <i>c</i> transit. |
| 7 | 42 | 39 | Saturnus iterum in filorum concursu. |
| 8 | 19 | $57\frac{1}{2}$ | Hyadum primus ad δ filum <i>a</i> transit. |
| 8 | 20 | $42\frac{1}{2}$ | <i>b</i> transit. |
| 8 | 21 | $27\frac{1}{2}$ | <i>c</i> transit. |
| 9 | 50 | 00 | Discus Lunaris horarium filum percurrit 139 minutis secundis horariis. |
| 9 | 56 | 00 | Iterum 139''. |
| 10 | 01 | 00 | Iterumque 139''. |
| 10 | 09 | 40 | Penumbra tenuis Lunam propè Hevelium obnubilare videtur. |
| 10 | 10 | 20 | Jam valdè sensibilis. |
| 10 | 11 | 40 | Initium defectûs pono. |
| 10 | 14 | 38 | Limes umbræ, quantum censeo, per Grimaldum & Cavalerium transit. |
| 10 | 19 | 46 | Per Ariftarchum. |
| 10 | 24 | 15 | Umbra Mare Humorum ingreditur. |
| 10 | 32 | 44 | Sinum Roris tegit. |



| Tem- pus. | Ver. | P. M. | |
|--------------|------|-------|---|
| 10 | 32 | 44 | Luna per Nubes vix cernitur. |
| 10 | 40 | 18 | Tychonem umbra dividit. |
| 10 | 42 | 26 | Mare Serenitatis attingit. |
| 10 | 46 | 01 | Menelaum tangit. |
| | | | Nubes atra supervenit. |
| 10 | 53 | 46 | Discedente Nube totum Mare Nectaris tectumprehenditur. |
| | | | Densissimæ Nubes Lunam iterum adi- munt. |
| 11 | 00 | 56 | Umbra Mare Crisium tangit. |
| 11 | 05 | 48 | Immerguntur Mare Crisium & Mare foecundum. |
| 11 | 10 | 00 | Totalis Lunæ in Umbram Immerfio. |
| 12 | 42 | 20 | Clarefcit jam Limbus Lunæ orientalis. |
| 12 | 46 | 05 | Fit clatior adhuc. |
| 12 | 47 | 56 | Filamentum sinceræ Lucis quasi ictu oculi restituitur. |
| | | | Nubeculæ plurimæ fugaces. |
| 12 | 57 | 05 | Limes Luminis attingit Mare Humo- rum. |
| 13 | 04 | 03 | Totum Humorū Mare recuperatur. |
| 13 | 13 | 40 | Semitegitur Tycho. |
| 13 | 14 | 00 | Retegitur totus. |
| 13 | 17 | 22 | Waltherus emergit. |
| | | | Multa Nubium caligo diu, uti vide- tur, duratura. |
| 13 | 43 | 44 | Mare foecundum extra umbram cer- nitur. |
| 13 | 46 | 25 | Umbra vera desinit. |
| 13 | 48 | 30 | Umbra notha non amplius sensibilis. |

In hisce observandis Horologio bonæ notæ pluribus retro diebus, etiamque hac ipsâ die, per quinque solis altitudines correspondentes debitâ prosthaphæresi correctas exacto, Tuboque optico sex pedes longo utebar. Circa medium obscurationis Luna quasi per Nubeculum subfuscum conspiciebatur, ad margines autem candentis instar ferri rubebat. Terminus Lucis & Umbræ per totum Eclipsin haud probè definiebatur.

5. *Observations of the Moon's Eclipse, March 15. 1735-6. at Yeovil in Somersetshire, Latitude 50 Degrees 52 Minutes, by Mr. John Milner, communicated by John Allen, M.D. F.R.S.*

N. B. The Clock was first adjusted by the Equation-Table.

| | H. | M. | S. | D. | M. |
|--|----|----|----|----|----|
| The Beginning | 10 | 6 | | | |
| The Moon's Altitude then | | | | 34 | 29 |
| The Beginning of total Observation } | 11 | 4 | 30 | | |
| The Altitude then was | | | | 34 | 16 |
| The Middle | 11 | 54 | | | |
| The End of total Obscu- ration } | 12 | 43 | 30 | | |
| The Altitude then was | | | | 34 | 47 |
| The End | 1 | 39 | 15 | | |
| The Altitude then was | | | | 31 | 47 |
| The Continuation of the total Obscuration was } | 1 | 39 | 0 | | |
| The Duration of the whole Eclipse } | 3 | 33 | 15 | | |

V. In-